# HRISHABH MAHAJU

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## ACADEMIC QUALIFICATION

**University of New Haven**                                                                                      **West Haven, CT**
Master's of Science in Data Science                                                                              **May 2026**
Courses**:** Python Programming, Algorithms, Intro to AI, Machine Learning
**Pokhara University (Cosmos College of Management and Technology)**                                  **Kaski, Nepal**
Bachelor's in Computer Engineering | CGPA: 3.29/ 4.0                                             **Graduated: July 2022**
Courses**:** Data Structures and Algorithms, Object Oriented Programming, Computer Networks, Artificial Intelligence, Discrete Mathematics

## SKILLS

- **Programming Languages:** Python, R, C++, JAVA, Javascript
- **Database and Visualization:** Power BI, ggplot2, Seaborn, MySQL, Oracle, MSSQL
- **Frameworks and Tools:** NumPy, SciPy, Pandas, Scikit-Learn, PyTorch, TensorFlow, Keras, OpenCV2

## WORK EXPERIENCE

**Motorable Local Roads Bridge Programme (MLRBP)**                                                      **Lalitpur, Nepal**
*Freelance Web Developer*                                                                                **Apr 2024 - May 2024**
*Technology Used:* ***ReactJS, NextJS, GeoJSON, MariaDB, Docker, MsExcel***
- Designed and developed a website ([https://webmap.lrbpnepal.org/](https://webmap.lrbpnepal.org/)) with features including but not limited to visualization of completed and under construction bridge projects under Nepal's Motorable Local Roads Bridge Programme (MLRBP).
- Responsible for data cleaning, schema creation, and organizing thousands of bridge-related data.

**YCO Pvt. Ltd., Kathmandu, Nepal**
*Software Development Engineer in Test, Nepal Stock Exchange (NEPSE) Project*                     **Jun 2023 - Jun 2024**
*Technology Used:* ***Python, Selenium, JMeter, Burp Suite, Postman***
- Improved software performance significantly through comprehensive functional, performance, and regression testing, to identify and resolve issues throughout the software development lifecycle.
- Participated in design reviews and risk assessments to identify potential quality issues and recommend improvements, resulting in increased product robustness.
- Involve in root cause analysis (RCA) investigations for defects and issues, providing actionable solutions and preventing future occurrences.

**YCO Pvt. Ltd., Kathmandu, Nepal**
*Associate Software Development Engineer, Nepal Stock Exchange (NEPSE) Project*                   **July 2022 - May 2023**
*Project Staff, Nepal Stock Exchange (NEPSE) Project*                                             **Feb 2022 - July 2022**
*Software Developer Intern, Nepal Stock Exchange (NEPSE) Project*                                 **Oct 2021 - Jan 2022**
*Technology Used:* ***Java, Spring Boot, Angular, JavaEE, MSSQL, Redis,  Birt Reporting***
- Implemented new software features and maintained the legacy features in NEPSE Website, NOTS (NEPSE Online Trading System) and NEPSE Surveillance System as a Software Developer.
- Designed and Developed user interface components using angular and engaged in server-side development.

## PROJECTS

**Alzheimer's Disease and Healthy Aging Data** | University of New Haven
- Developed a data analysis project leveraging Python for trend analysis, confidence interval computation, and K-Means clustering on Alzheimer's Disease data from the BRFSS survey.

**E-Health Care Chatbot with Mental Health Consultant using Decision Tree Algorithm** | Cosmos College of Management and Technology
- Designed and developed an AI application that interacts with the user to predict the disease and recommend possible treatment after a series of yes/no questions with the help of Decision Tree Algorithm with Python.

## LEADERSHIP AND VOLUNTEERING

- Active member of the Data Science Club at the University of New Haven; organized and conducted a workshop on GitHub for Data Scientists, providing hands-on training to club members.
- Volunteered as an Operations Team Member for the Hack New Haven Hackathon, ensuring seamless event logistics and coordination at the University of New Haven.
- Volunteered in various social projects, such as the annual blood donation program and Lunch distribution to people experiencing homelessness during COVID-19 pandemic, as a member of Leo Club of Kathmandu Kohinoor.
- Volunteered an event involving the reading aloud of the Dhammapada, teaching of the Gautam Buddha, organized by the World Record Holders' Council Nepal and Guiness World Record Official in Kathmandu, Nepal.